

CABOT

EPA Region 5 Records Ctr.



December 15, 1986

298865

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(EPA-DLPC)

Mr. Steve Davis
Division of Land Pollution Control
Illinois EPA
2200 Churchill Road
Springfield, IL 62700

Dear Mr. Davis:

Enclosed are two copies of our annual groundwater monitoring report. Included in the report is the latest amendment to our groundwater quality assessment program. The amendment recommends we drill three more monitoring wells. It also recommends dropping the quarterly monitoring of seven wells and the analysis of base/neutral organics.

Also enclosed is the result of the analysis of the pond sludge samples and leachate taken November 7, 1986. Stafford Dusenberg, IEPA, witnessed the taking of the samples. The pH and conductivity of the samples were measured in our lab.

The analysis received indicated the presence of chlorobenzene and bromoform, which have not appeared in any of our groundwater monitoring samples. Also these contaminants were not in the leachate.

All of these solids will be moved to the surface impoundment, solidified and sealed as part of the surface impoundment closure. The leachate is presently disposed of down our deep disposal well.

If you have any questions, please call me at (217) 253-3370.

Sincerely,

Randy Bergeson

Randy Bergeson

RB:pjr
PR732

Enclosures

Cabot Corporation
Cab-O-Sil Division
P O Box 188
Tuscola, IL 61953
217-253-3370

Sample #

1 (Pond solids disposal area, 40" deep)
2 (Leachfield, 21" deep)
3 (Tank Farm, 14" deep)
4 (Pond solids disposal leachate)
5 (Leachfield leachate)

<u>pH</u>	<u>Conductivity</u>
2.71	1180
3.72	210
5.06	1010
4.09	8100
6.90	2100

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LABORATORY REPORT

#5655

P.O. 70454

Cabot Corporation
Rt. 36
P.O. Box 188
Tuscola, IL 61953

11-21-86

ATTN: Jim Teeters

SAMPLE NO: SEE BELOW
Received 11-11-86 1200
SAMPLE DESCRIPTION: SEE BELOW

SAMPLE DESCRIPTION	Volatiles	RESULTS	UNITS
36701 #1 Solids from West Leach Field	see attached	Pond solids	dry weight
36702 #2 Solids from East Leach Field	see attached	Leachfield	dry weight
36703 #3 Solids from North Leach Field	see attached	Tenk Dam area	dry weight
36704 #4 Liquid from West Leach Field	see attached		
36705 #5 Liquid from East Leach Field	see attached		

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G. e. Marks
G. Marks, Ph.D.

VOLATILES

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	[TEI-36704] Liquid West Leach Field	[TEI-36705] Liquid East Leach Field
Acrolein, ppm	< 0.10	< 0.10
Acrylonitrile, ppm	< 0.10	< 0.10
Benzene, ppm	< 0.001	< 0.001
Toluene, ppm	< 0.001	< 0.001
Ethyl Benzene, ppm	< 0.001	< 0.001
Carbon tetrachloride, ppm	< 0.001	< 0.001
Chlorobenzene, ppm	< 0.001	< 0.001
1,2 Dichloroethane, ppm	< 0.001	< 0.001
1,1,1 Trichloroethane, ppm	< 0.001	< 0.001
1,1 Dichloroethane, ppm	< 0.001	< 0.001
1,1 Dichloroethylene, ppm	< 0.001	< 0.001
1,1,2 Trichloroethane, ppm	< 0.001	< 0.001
1,1,2,2 Tetrachloroethane, ppm	< 0.001	< 0.001
Chloroethane, ppm	< 0.001	< 0.001
2 Chloroethyl vinyl ether, ppm	< 0.001	< 0.001
Chloroform, ppm	< 0.001	< 0.001
1,2 Dichloropropane, ppm	< 0.001	< 0.001
1,3 Dichloropropene, ppm	< 0.001	< 0.001
Methylene Chloride, ppm	< 0.001	< 0.001
Methyl Chloride, ppm	< 0.001	< 0.001
Methyl Bromide, ppm	< 0.001	< 0.001
Bromoform, ppm	< 0.001	< 0.001
Dichlorobromomethane, ppm	< 0.001	< 0.001
Trichlorofluoromethane, ppm	< 0.001	< 0.001
Chlorodibromomethane, ppm	< 0.001	< 0.001
Dichlorodifluoromethane, ppm	< 0.001	< 0.001
Tetrachloroethylene, ppm	<u>0.045</u>	0.21
Vinyl Chloride, ppm	< 0.001	< 0.001
1,2 t Dichloroethylene, ppm	< 0.001	< 0.001
Bis (chloromethyl) ether, ppm	< 0.001	< 0.001
Trichloroethylene, ppm	< 0.001	< 0.001

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J. E. Marks

VOLATILES**TEI ANALYTICAL, INC.**

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	[TEI-36701] Solid West Leach field	[TEI-36702] Solid East Leach Field	[TEI-36703] Solid North Leach Field
Acrolein, ppm	< 0.5	< 0.5	< 0.5
Acrylonitrile, ppm	< 0.5	< 0.5	< 0.5
Benzene, ppm	< 0.2	< 0.2	< 0.2
Toluene, ppm	< 0.2	< 0.2	< 0.2
Ethyl Benzene, ppm	< 0.2	< 0.2	< 0.2
Carbon tetrachloride, ppm	< 0.2	< 0.2	< 0.2
Chlorobenzene, ppm	<u>13</u>	6.9	< 0.2
1,2 Dichloroethane, ppm	< 0.2	< 0.2	< 0.2
1,1,1 Trichloroethane, ppm	5.5	4.1	< 0.2
1,1 Dichloroethane, ppm	< 0.2	< 0.2	< 0.2
1,1 Dichloroethylene, ppm	< 0.2	< 0.2	< 0.2
1,1,2 Trichloroethane, ppm	< 0.2	< 0.2	< 0.2
1,1,2,2 Tetrachloroethane, ppm	< 0.2	< 0.2	< 0.2
Chloroethane, ppm	< 0.2	< 0.2	< 0.2
2 Chloroethyl vinyl ether, ppm	< 0.2	< 0.2	< 0.2
Chloroform, ppm	< 0.2	< 0.2	< 0.2
1,2 Dichloropropane, ppm	< 0.2	< 0.2	< 0.2
1,3 Dichloropropene, ppm	< 0.2	< 0.2	< 0.2
Methylene Chloride, ppm	< 0.2	< 0.2	< 0.2
Methyl Chloride, ppm	< 0.2	< 0.2	< 0.2
Methyl Bromide, ppm	< 0.2	< 0.2	< 0.2
Bromoform, ppm	15	10	< 0.2
Dichlorobromomethane, ppm	< 0.2	< 0.2	< 0.2
Trichlorofluoromethane, ppm	< 0.2	< 0.2	< 0.2
Chlorodibromomethane, ppm	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane, ppm	< 0.2	< 0.2	< 0.2
Tetrachloroethylene, ppm	12	7.2	< 0.2
Trichloroethylene	< 0.2	< 0.2	< 0.2
Vinyl Chloride	< 0.2	< 0.2	< 0.2
1,2 t Dichloroethylene	< 0.2	< 0.2	< 0.2
Bis (chloromethyl) ether	< 0.2	< 0.2	< 0.2

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